



Highlights:

- **The cumulative rainfall** for dekad2_January_2017 was suppressed country wide.
- **Satellite derived soil moisture index showed a continuous general decrease** during both dekad1 and dekad2_January_2017
- The rainfall during dekad3_January_2017 is expected to **increase slightly** compared to what was observed in the second dekad2 of January_2017 across of the country.

I. Introduction

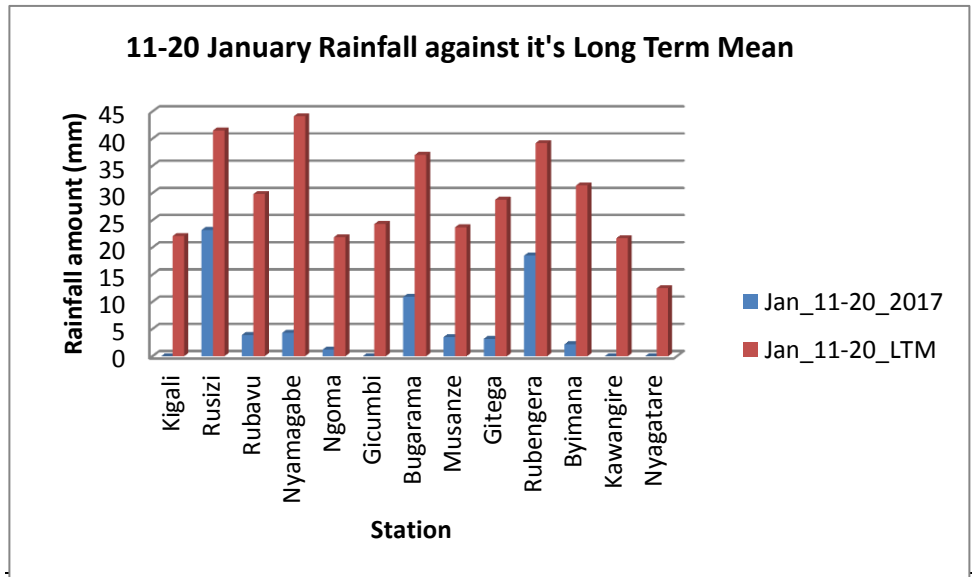
During dekad2_January_2017; rainfall records were below the long term mean (LTM) for the whole country. There are even some places that recorded no rainfall during the dekad2 especially Kigali, Gicumbi, Kawangire and Nyagatare.

a) The table and histogram below indicates the rainfall recorded during dekad2_January_2017 in comparison to LTM during the same period.

Cumulative rainfall (in mm) recorded at different stations

Station	Jan_1 1- 20_20 17	Jan_11- 20_LTM
Kigali	0	22.1
Rusizi (Kamembe)	23.2	41.5
Rubavu (Gisenyi)	3.9	29.8
Nyamagabe (Gikongoro)	4.3	44.1
Ngoma (Kibungo)	1.2	21.9
Gicumbi (Byumba)	0	24.3
Bugarama	10.9	37
Musanze (Ruhengeri)	3.5	23.7
Gitega	3.2	28.8
Rubengera	18.5	39.2
Byimana	2.2	31.4
Kawangire	0	21.7
Nyagatare	0	12.5

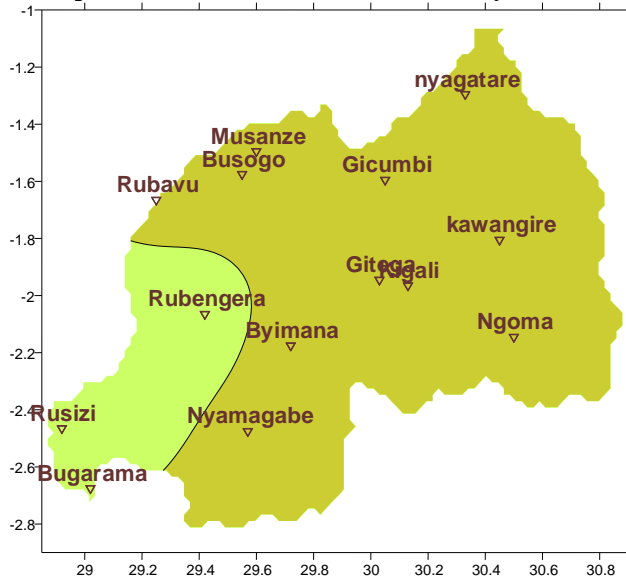
Table1



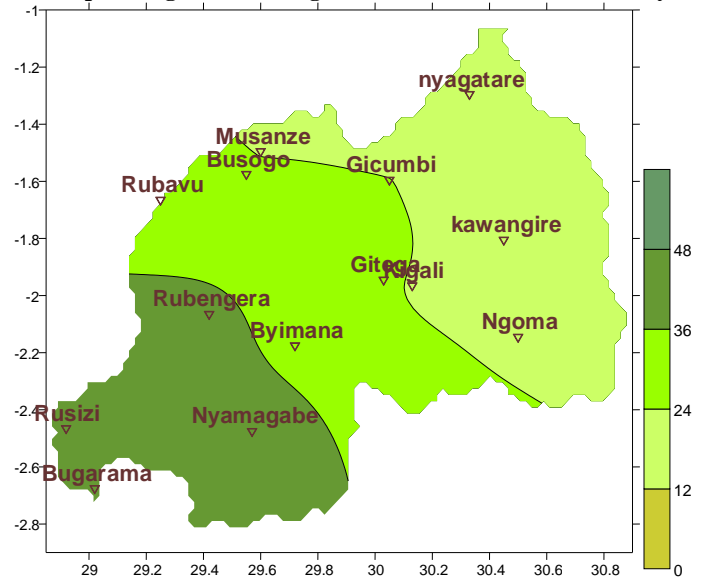
Plot1

b) **Rainfall analysis:** The maps “**Map 1 and 2**” below show the cumulative rainfall recorded during dekad2_January_2017 and its long term mean (LTM) of cumulative rainfall. The maps “**map 3 and 4**” show the cumulative rainfall recorded during dekad1_January_2017 and its LTM of cumulative rainfall.

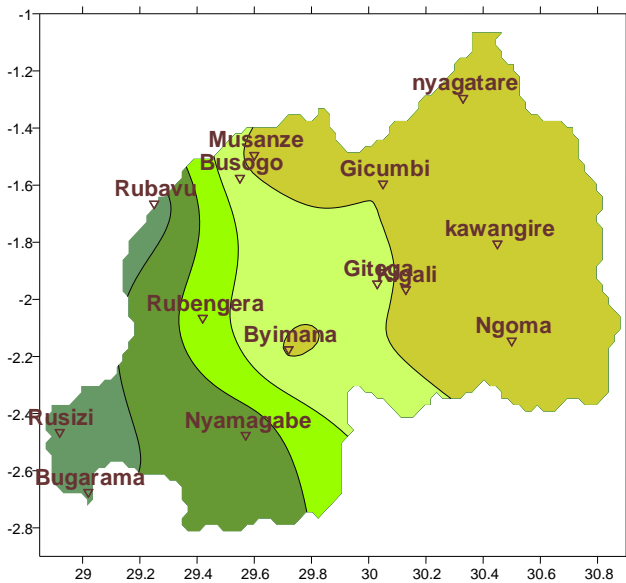
Map1: Total Rainfall (mm): dekad2_January_2017



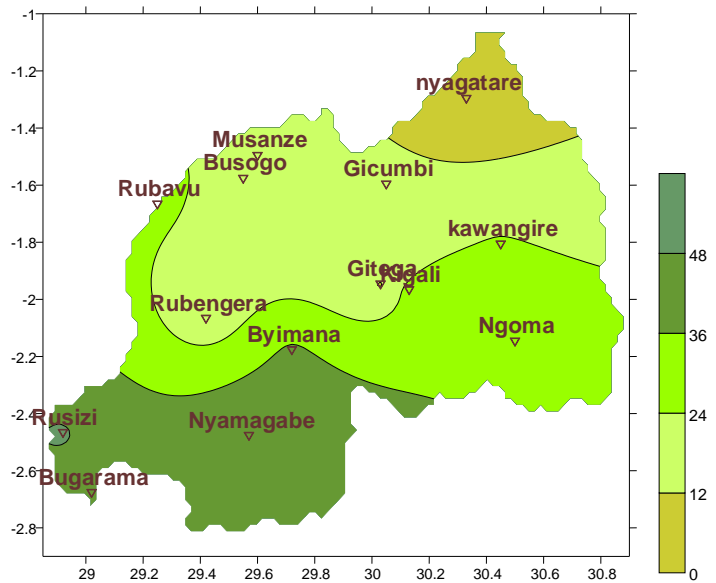
Map2: Long Term Average Rainfall (mm): dekad2_January_LTM



Map1: Total Rainfall (mm): dekad1_January_2017



Map2: Long Term Average Rainfall (mm): dekad1_January_LTM



II. Detailed observed rainfall during the dekad2_January_2017

Cumulative rainfall for dekad2_January_2017 was far below the LTM average for the entire country (see **Map1&2**) while for dekad1_January_2017 was within the same threshold as the LTM except for the whole of Eastern Province, Gicumbi and eastern part of Kigali and Musanze which received below 12mm of rainfall to none according to the scale indicated above (see **Map3&4**)

a) Eastern Province

All representing stations recorded no rainfall which was not expected during this period (see **Table1** and **Map1&2**)

b) Northern Province

All representing stations recorded below to no rainfall which was not comparable to the LTM (see **Table1** and **Map1&2**)

c) Southern Province

All representing stations also recorded rainfall amount that was far below the LTM (see **Table1** and **Map1&2**)

d) Western Province

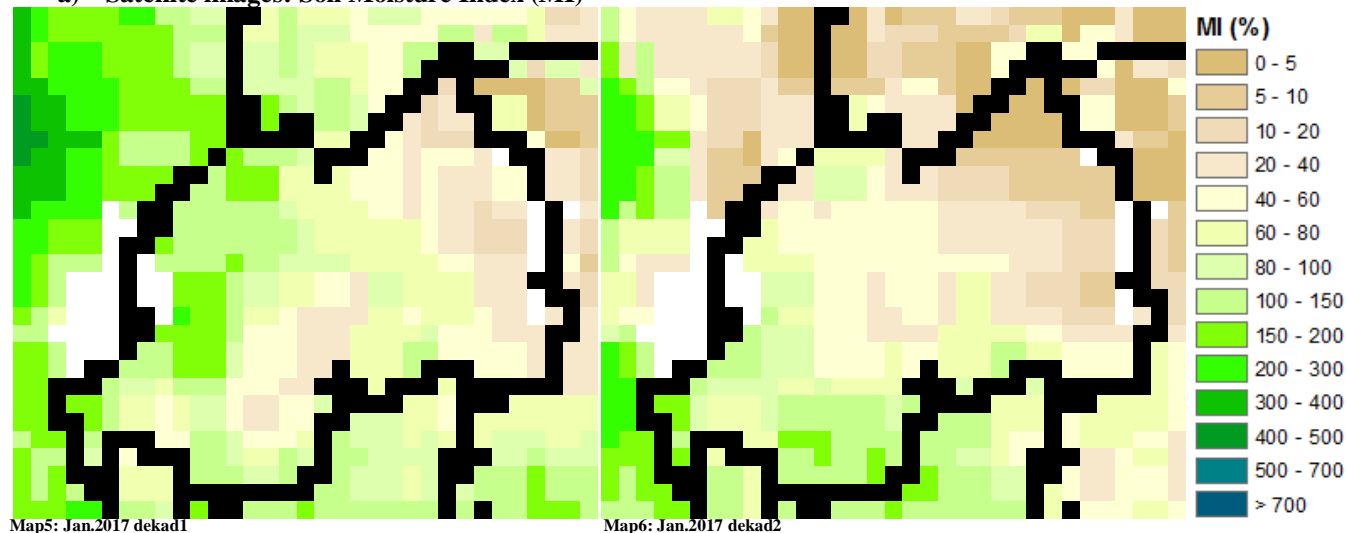
All representing stations recorded rainfall which was below the amount expected according to the LTM (see **Table1** and **Map1&2**)

e) Kigali City

All representing stations recorded below 4mm to none which was far below the LTM (see **Table1** and **Map1&2**)

III. Agricultural impact.

a) Satellite images: Soil Moisture Index (MI)



During dekad1 to dekad2_January_2016; the satellite derived moisture index highly reduced according to maps above (see **Map 5&6**); which was attributed to the rainfall over the whole country during dekad2.

The distribution of rains during dekad3_January_2017 is expected to slightly enhance which will be under the influence of south easterlies that will bring moisture over the region hence rains slightly realized during the dekad3 of January_2017

Farmers are advised to be on alert because the rains expected may not completely supplement irrigation practices.

Rainfall forecast for dekad3_January_2017

We expect slightly enhanced conditions over most parts of the country during dekad3_January_2017

Kigali City; Will experience cloudy conditions and few occurrences of rainfall.

Eastern Region; Will experience cloudy conditions and few occurrences of rainfall.

Western Region; Will experience cloudy conditions associated with thundery activities.

Northern region; Will experience cloudy conditions associated with thundery activities; especially the western part of this region.

Southern Region; Will experience cloudy conditions associated with thundery activities; especially the western part of this region.

N.B: This forecast should be used in conjunction with the daily (24-hour), Three (3), Five (5) and Seven (7) days forecasts issued by the Rwanda Meteorology Agency (Meteo Rwanda)